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DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO.

09/530343

INTERNATIONAL APPLICATION NO.

PCT/EP99/05765

INTERNATIONAL FILING DATE

09 AUGUST 1999

PRIORITY DATE CLAIMED

27 AUGUST 1998

TITLE OF INVENTION:

PROVIDING A SERVICE IN A COMMUNICATION SYSTEM

APPLICANT(S) FOR DO/EO/US

DELLAVERSON, ET AL

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
 2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
 3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the application time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
 4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
 5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
 6. ☒ A translation of the International Application into English (35 U.S.C. 371 (c)(2)).
 7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
 8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
 9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
 10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
- Items 11 to 16 below concern other document(s) or information included:**
11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
 12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.26 and 3.31 is included.
 13. ☐ A **FIRST** preliminary amendment.
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
 14. ☐ A substitute specification.
 15. ☐ A change of power of attorney and/or address letter.
 16. ☐ Other items or information:

U.S. Application No. (if known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold; margin-top: 10px;">09/530343</div>	International Application No. <div style="text-align: center; margin-top: 10px;">PCT/EP99/05765</div>	Attorney Docket Number <div style="text-align: center; margin-top: 10px;">CE0137UM</div>																				
17. <input checked="" type="checkbox"/> The following fees are submitted: Basic National Fee (37 CFR 1.492(a)(1)-(5)): Search report has been prepared by the EPO or JPO.....\$840.00 International preliminary examination fee paid to USPTO (37 CFR 1.482)\$670.00 No International preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445 (a)(2)).....\$690.00 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$970.00 Intentional preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4)\$96.00		CALCULATIONS PTO USE ONLY																				
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 840.00																				
Surcharge of \$130.00 for furnishing the oath and declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Claims</th> <th style="width: 25%;">Number Filed</th> <th style="width: 25%;">Number Extra</th> <th style="width: 25%;">Rate</th> </tr> <tr> <td>Total Claims</td> <td>26</td> <td>- 20 =</td> <td>6</td> </tr> <tr> <td>Independent Claims</td> <td>2</td> <td>- 3 =</td> <td></td> </tr> </table>	Claims	Number Filed	Number Extra	Rate	Total Claims	26	- 20 =	6	Independent Claims	2	- 3 =		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">X \$18.00</td> <td style="width: 25%;">\$</td> <td style="width: 50%;">108.00</td> </tr> <tr> <td>X \$78.00</td> <td>\$</td> <td></td> </tr> <tr> <td>+ \$260.00</td> <td>\$</td> <td>260.00</td> </tr> </table>	X \$18.00	\$	108.00	X \$78.00	\$		+ \$260.00	\$	260.00
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$																				
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Amount to be refunded		\$																				
Charged		\$ 1208.00																				

a. ☐ A check in the amount of \$_____ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 50-0280 in the amount of \$ 1208.00 to cover the above fees.
 A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required now or in the future under
 37 CFR 1.16 or 37 CFR 1.17, including any present or future time extension fees which may be required, or credit any
 overpayment to Deposit Account No. 50-0280. Two duplicate copy of this sheet is enclosed.

Note: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b))
 must be filed and granted to restore the application to pending status.

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PTO/PCT Rec'd 27 APR 2001

PROVIDING A SERVICE IN A COMMUNICATION SYSTEMField of the Invention

- 5 The present invention relates to a method of providing a service in a communication system, wherein the service is provided by a content provider to a user. The present invention also relates to an apparatus for providing a service in a communication system, wherein the service is provided by a content provider to a user. The invention is applicable to but
- 10 not limited to a cellular radio communication system such as the Universal Mobile Telecommunication System (UMTS) currently under standardisation.

Background of the Invention

- 15 Diverse information services currently exist. The content of such information services are typically provided by a content provider, and transmitted to end users by means of some communication network. The communication network is often termed an information highway, and can
- 20 be for example the internet or other electronic communications routes. Some examples of the type of information provided are news bulletins, travel routes, tourist advice, and so on. The content of such information services are often produced and transmitted in multimedia form.
- 25 Information highways or networks such as the internet consist of many sub-links connected in a nodal fashion, and the sub-links are formed of different specific types of communications link, for example digital telephone lines, ISDN lines and analogue telephone lines.
- 30 One type of communication link that is expected in future to play an increasing role as one link within information highways such as the internet is that provided by cellular radio communication systems, in particular in the case where the user or subscriber station is a mobile one. Presently established cellular radio communication systems include GSM
- 35 systems (Global System for Mobile Communications).

The Universal Mobile Telecommunication System (UMTS) currently under standardisation is intended to provide a harmonised standard under which cellular radio communication systems will provide

- 5 communications links suitable for transmitting a variety of data services such as information services as described above. It is expected that within the framework of developments such as UMTS or the like, cellular radio communication systems will play an increasing role in information highways such as the internet.

- 10 Generally speaking, the above described combination of information provision services and cellular radio communications systems along the lines of UMTS creates a broad range of new engineering problems and challenges. Indeed, one of the challenges faced is to envisage what new
15 opportunities arise to provide users with additional facilities in the light of such a combination.

Summary of the Invention

- 20 In the light of the above the present inventors have envisaged that the information services to be handled by systems such as UMTS, especially when in multimedia form, will be extremely diverse and each will have very different requirements with respect to communications parameters
25 such as bandwidth, delay, and error rate. Similarly the present inventors have envisaged that different users will have different types of user station with differing capabilities. The present inventors have envisaged that some content providers will be able to offer users, i.e. customers, a choice as to what overall quality they wish to receive the information at, in terms of for
30 example bandwidth, delay, and error rate, as a function of the price the customer wishes to pay.

The present inventors have further envisaged that since for some classes of information, e.g. news bulletins, there could be several sources of the same or similar information, the user could go to alternative content providers who could charge differently. Similarly, the present inventors have envisaged that cellular communication systems such as UMTS will involve respective arrangements of networks and sub-networks other than the simple linear arrangement of present systems such as GSM. In particular some networks will operate as access networks and others as core networks. Furthermore, the present inventors have envisaged that content providers will potentially be able to input their information at more than one input interface location of the respective network or interconnected networks.

The present inventors have also envisaged that within systems such as UMTS there will consequently be many routes to connect desired services. Depending on the bandwidths available, facilities, transmission distances and so on, the different cellular radio system network operators' costs will vary and hence the price to the user. The present inventors have envisaged therefore that overall there will be many combinations of content provider, networks, communications parameters and hence price.

The present invention advantageously implements means for the content provider and end user to take advantage of the characteristics described above and envisaged by the present inventors.

According to one aspect of the present invention, there is provided a method of providing a service in a communication system, wherein the service is provided by a content provider to a user, as claimed in claim 1.

According to another aspect of the invention, there is provided an apparatus for providing a service in a communication system, wherein the service is provided by a content provider to a user, as claimed in claim

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Further aspects of the invention are as claimed in the dependent claims.

5 The present invention provides the user with communication parameter options, which enable the user to select the level of service required as a function of price. Having made a selection, the user can advantageously be provided with a sample service corresponding to the selection for a limited duration. Additional specific advantages are apparent from the following
10 description and figures.

Brief Description of the Drawings

15 FIG. 1 is an illustration of a communication system in accordance with the present invention.

FIG. 2 is a schematic illustration of options provided in a preferred embodiment of the present invention.

FIG. 3 is a schematic illustration of a user station including an external device according to an embodiment of the present invention.

20

Description of a Preferred Embodiment of the Invention

One particular embodiment of the invention is now described by way of example only. FIG. 1 shows a communication system 100 including a user
25 station 110 and a control station 120. In this example, user station 110 is a mobile station and control station 120 consists of a base station system (BSS). A communication link established between BSS 120 and mobile station 110 is achieved by a radio link 130. The geographical area served by BSS 120 constitutes one cell of a cellular radio communication system.

30

In the present embodiment BSS 120 is connected to a mobile services switching centre (MSC) 140, which in turn is connected to a public

switched telephone network (PSTN) 150. In the present embodiment PSTN 150 is connected to an information network 160, which in the present example consists of the internet. The present invention is however also applicable to other information networks, including restricted access
5 networks and private networks.

In the present embodiment the content provider will provide an information service to a user via the route consisting of information network 160, PSTN 150, MSC 140, control station 120, radio link 130 and
10 mobile station 110. The information, in multimedia form, is input to the information network via an interface 170. In the present example this interface consists of a modem and the content provider has produced the information content on a computer system.

15 In other embodiments interface 170 could be coupled directly to PSTN 150 or MSC 140. One scenario in which direct coupling into MSC 140 could occur would be when a particular content provider has a commercial agreement with a particular cellular radio communication network operator having control of or access to MSC 140.

20 Furthermore it is to be appreciated that the present invention is applicable to other varieties of network configurations and network components, arranged in different hierarchical, access and interconnection formats, in data handling communications systems such as UMTS. As such, the
25 route via which the content provider will provide an information service to a user in other embodiments of the present invention will be chosen by the skilled person according to the particular characteristics of each overall network arrangement, and similarly the location of interface 170 will be
30 chosen according to the particular characteristics of the overall network arrangement and the nature of the network components.

Similarly, it is to be appreciated that according to the specific network

- configuration and hierarchies, alternative system components will be incorporated serving different roles compared to control station 120, MSC 140 and PSTN 150. For example, networks such as UMTS ones may incorporate a public data network as opposed to a PSTN, and may
- 5 incorporate a mobile packet switch as opposed to an MSC. Indeed the invention is applicable to any communication network, including overall networks consisting of sub-networks arranged in parallel and/or superimposed hierarchical logical format, in which a content provider is somewhere inputting an information service into the network
- 10 arrangement and somewhere else in the overall network arrangement is located a user station by which a user is receiving or intending to receive the information service.

- The method of the present embodiment includes the step of providing to
- 15 the user a plurality of options related to values of at least one communications parameter to be used during the provision of service, for selection therefrom by the user.

- In the present embodiment four communications parameters are
- 20 included, namely
- a) bandwidth,
 - b) delay,
 - c) error rate, and
 - d) communications route.

- 25 In the present embodiment each of these communications parameters, shown as items 210, 220, 230 and 240 in FIG. 2, are presented to the user on the display of the mobile station. Each of these communications parameters will have an effect on the quality of the service as perceived by the user. It is to be appreciated that the present invention applies to other
- 30 embodiments in the form of other communications parameters which will have an effect on the quality of service as perceived by the user.

In the present embodiment, the user station comprises a mobile telephone 310 comprising means for communicating over a communication link 320 with an external device 330, as shown in FIG. 3. The external device can in principle be any device not an integral part of the mobile station, but is preferably a computer or an electronic organiser. Alternatively, the external device can be a smartcard, such as the Subscriber Identity Module (SIM) card used in cellular radio communications systems. The communication link 320 is preferably a fixed cable connection with appropriate interfaces built into the mobile station and the external device, but other communication links such as infrared or radio links can be used.

With respect to each of the above mentioned communications parameters a plurality of options related to the values thereof to be used during the provision of service, shown in FIG. 2 as items 212, 214 and 216 for bandwidth, items 222, 224 and 226 for delay, items 232, 234 and 236 for error rate, and items 242, 244 and 246 for communications route, are provided to the user, on the display of the mobile station. The options are presented in the present example to the user in the form of the readily appreciated terminology. In the case of bandwidth, the terms are "slow", "medium" and "fast", corresponding to the values 9.6kB, 200kB and 2Mb respectively. In the case of delay, the terms are "audio", "up to 30 seconds" and "up to 2 hours", where audio corresponds to 50 microseconds. In the case of error rate, the terms are "poor quality", "medium quality" and "high quality", corresponding to the values 10^{-4} , 10^{-6} and 10^{-12} respectively. In the case of communications route, the identity of different available communications networks are provided, in this example network X, network Y and network Z. It will be readily appreciated that presenting the options to the user in terms of everyday terminology provides benefits related to user friendliness, but it is noted that the relevant options could alternatively be presented in the form of the actual numerical values where appropriate, or in terms of both the user friendly terms and the real numerical values. It will also be appreciated that although the present example specifically

cites three options for each parameter, in other examples any discrete number from 2 upward would be possible, moreover the number of options can be different for different respective parameters. Yet further, the plurality of options could be embodied in the form of a continuous range of values which would preferably be presented to the user in the form of slider bars.

The user selects the required options by use of conventional keyboard/screen interface means, for example by directing movement of a cursor by keyboard keys or mouse operation, and clicking, and so on.

In the present embodiment, a further feature can be that the options are provided as a function of price. The way in which the price function will be presented to the user will be chosen according to the particular situation under consideration. In the present example, a total price is provided, as shown at item 210 in FIG. 2. The price displayed initially is that corresponding to default options, the identity of which will be shown on the display by highlighting means. As the user selects particular alternative options, the price will adjust accordingly. How this is achieved is now explained.

In the present embodiment the function of price is determined using price information input by the content provider and/or price information input by one or more further service providers forming a communications route between the content provider and the user. Thus in the present example price information forming part of the overall price function will have been derived from the operator of PSTN 150, and from the operator of the cellular radio communication system comprising MSC 140 and control station 120, and this price information will have been transmitted to the content provider who will have chosen his own prices as a function of bandwidth, error rate etc., in the light of the provided for such options by the respective operators.

One possibility is that the function of price is determined using stored price information data obtained from an earlier provision of service employing the corresponding values of said at least one communications parameter.

- 5 In other words the content provider will have produced price functions based on earlier actual prices that resulted for equivalent choices of options.

- 10 An alternative possibility is that the function of price is determined in real-time using currently applicable price information. Under this possibility the above mentioned operators as well as the content provider will each be providing ongoing input of price variables which are called upon as the user selects different options. Such a process is implemented by a pricing structure. Such a structure can be based on a packet billing system, which
- 15 takes into account the demanded bandwidth, quality and delay, through which a test packet is sent through the network in order to determine the price which is assigned to it.

- In the present embodiment, a further feature can be that simulation
- 20 means are provided by the content provider for use by the user to carry out simulation of the service that would be provided according to an intended selection by the user. The availability of the simulation means is indicated to the user in association with provision of the plurality of options by means of an item on the display of the user station, such as shown as item 260 in
- 25 FIG. 2. One possibility is that the user can acquire said simulation means via the communication system, in that software forming the simulation means is provided by the content provider for downloading by the user into his mobile station. An alternative would be that software forming the simulation means was pre-loaded onto the user's mobile station, or
- 30 available for use in the mobile station by some other means.

The user implements use of the simulation means by further use of conventional keyboard/screen interface means, again for example by directing movement of a cursor by keyboard keys or mouse operation, and clicking, and so on.

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In each case the software forming the simulation means on the present example will run a simulated version of the service to be provided at the corresponding functions selected by the user. This will enable the user to gauge whether his intended selection of options will in fact provide a service of appearance or content sufficient to meet his requirements.

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It is noted that other simulation means other than software are possible, such as electronic circuits.

15 In the present embodiment, a further feature can be that, after selection by the user, a sample service corresponding to the selection is provided to the user for a limited duration. When the user has made a selection of the options, the actual service is provided, but only for a limited duration. Thus a means is provided for the user to gauge whether his intended selection of options will in fact provide a service of appearance or content sufficient to meet his requirements. This would also facilitate advantageous commercial choices for the content provider such as whether the service of limited duration is to be provided free of cost or at reduced cost. Also, the limited duration can consist of either a predetermined period of time or a
25 predetermined cost, or some combination of these or other features that the skilled person would choose according to the particular system requirements. After the limited duration has expired, the user could request service to be continued or alternatively could select a different combination of options.

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The above described features of simulation means and sample service may be provided by the content provider in the alternate, or also they could both be provided.

- 5 As described above, in the present embodiment, user station 110 consists of a mobile telephone 310 comprising means for communicating over a communication link 320 with an external device 330. However, alternatively, user station can consist of an electronic organiser module/mobile radio telephone combination unit, including a display and
10 keyboard. Alternatively, the user station can be in effective mobile form by being constituted of a pci card plugged into a computer and serving as a radio modem. Similarly, a further alternative is a portable computer with a radio built in. Yet another alternative is a mobile telephone unit in which the user actions corresponding to those described earlier above are carried
15 out by voice activation and/or key stroke methods.

The present invention allows the provision of a facility wherein the user can select a maximum price he wishes to pay, and a choice of parameter value options within that price can be presented to the user.

- 20 The present invention provides advantages in any applicable communication system, but is however particularly advantageous in network arrangements including cellular radio communication systems, such as UMTS, since the inclusion of a radio link, and the impact of
25 cellular arrangement, means the different values of communications parameters available are particularly marked and are likely to be particularly price sensitive. The present invention is similarly particularly advantageous in any communication systems with "bandwidth on demand" or similar characteristic. Also, in the case of mobile stations, the
30 mobility aspect itself will mean that a given customer may be prepared to pay more or less, or require different level of service, dependent on his location at a particular time.

The present invention is also particularly advantageous in situations where large price variations apply to the parameter values but such parameter values are not important for certain applications. One such application would be telemetry where slow data transfer or large delay might not represent much of a problem.

A further advantage can be provided whereby the content provider can choose end limits, or limitations of allowable combinations, of the values that the user is permitted to choose. This may be done in order to maintain bottom line levels of quality, for the purposes of maintaining customer perception or expectations.

15

CLAIMS

1. A method of providing a service in a communication system, wherein
5 the service is provided by a content provider to a user,
the method comprising the step of:
providing to the user a plurality of options related to values of at least one
communications parameter to be used during the provision of service, for
selection therefrom by the user.
- 10 2. A method according to claim 1, wherein said at least one
communications parameter is related to the quality of service perceived by
the user.
- 15 3. A method according to any preceding claim, wherein said service is
an information service.
4. A method according to any preceding claim, wherein said
communication system is a radio communication system.
- 20 5. A method according to any preceding claim, wherein said at least
one communications parameter includes at least one from the group of
a) bandwidth,
b) delay,
25 c) error rate, and
d) communications route.
6. A method according to any preceding claim, wherein said options are
provided as a function of price.
- 30 7. A method according to claim 6, wherein the function of price is
determined using price information input by the content provider and/or

price information input by one or more further service providers forming a communications route between the content provider and the user.

8. A method according to claims 6 or 7, wherein the function of price is
5 determined using stored price information data obtained from an earlier provision of service employing the corresponding values of said at least one communications parameter.
9. A method according to claims 6 or 7, wherein the function of price is
10 determined in real-time using currently applicable price information.
10. A method according to any preceding claim, wherein simulation means are provided by the content provider for use by the user to carry out simulation of the service that would be provided according to an intended
15 selection by the user.
11. A method according to claim 10, wherein availability of said simulation means is indicated to the user in association with provision of the plurality of options, and said user can acquire said simulation means
20 via the communication system.
12. A method according to any preceding claim wherein, after selection by the user, a sample service corresponding to the selection is provided to the user for a limited duration.
- 25 13. An apparatus for providing a service in a communication system, wherein the service is provided by a content provider to a user, the apparatus comprising:
means for providing to the user a plurality of options related to values of at
30 least one communications parameter to be used during the provision of service, for selection therefrom by the user.

14. An apparatus according to claim 13, wherein said at least one communications parameter is related to the quality of service perceived by the user.

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15. An apparatus according to claim 13 or 14, wherein said service is an information service.

16. An apparatus according to any of claims 13-15, wherein said communication system is a radio communication system.

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17. An apparatus according to any of claims 13-16, wherein said at least one communications parameter includes at least one from the group of

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- a) bandwidth,
- b) delay,
- c) error rate, and
- d) communications route.

20

18. An apparatus according to any of claims 13-17, wherein said options are provided as a function of price.

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19. An apparatus according to claim 18, wherein the function of price is determined using price information input by the content provider and/or price information input by one or more further service providers forming a communications route between the content provider and the user.

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20. An apparatus according to claims 18 or 19, wherein the function of price is determined using stored price information data obtained from an earlier provision of service employing the corresponding values of said at least one communications parameter.

21. An apparatus according to claims 18 or 19, wherein the function of price is determined in real-time using currently applicable price information.

5 22. An apparatus according to any of claims 13-21, wherein simulation means are provided by the content provider for use by the user to carry out simulation of the service that would be provided according to an intended selection by the user.

10 23. An apparatus according to claim 22, wherein availability of said simulation means is indicated to the user in association with provision of the plurality of options, and said user can acquire said simulation means via the communication system.

15 24. An apparatus according to any of claims 13-23, wherein, after selection by the user, a sample service corresponding to the selection is provided to the user for a limited duration.

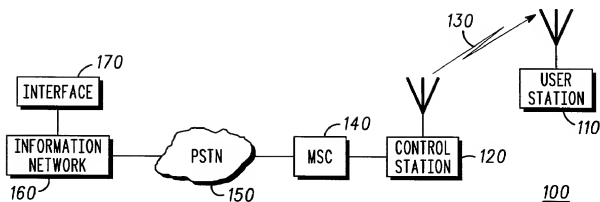


FIG. 1

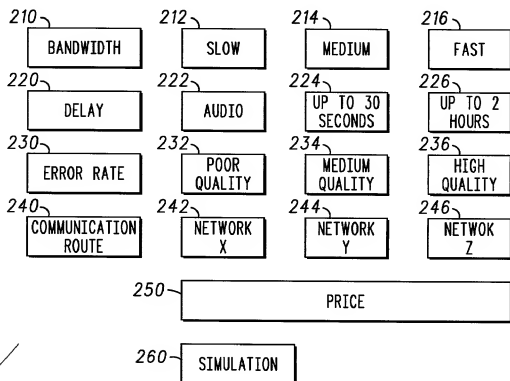


FIG. 2

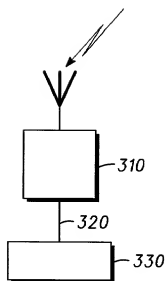


FIG. 3

**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

Attorney Docket CE0137UM

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled PROVIDING A SERVICE IN A COMMUNICATION SYSTEM, the specification of which is attached hereto unless the following box is checked:

- ☐ Application was filed on 08/09/99 in the U.S.
as Application No. 09/530,343
and was amended on _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

<u>9818585.3</u> (Number)	<u>GB</u> (Country)	<u>27 August 1998</u> (Day/Month/Year Filed)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<u>PCT/EP99/105765</u>		<u>PCT</u>	
<u>1999</u> (Number)	<input checked="" type="checkbox"/> Yes (Country)	<input type="checkbox"/> No (Day/Month/Year Filed)	<u>09 August</u>

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application Number) (Filing Date)

(Application Number) (Filing Date)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Number) (Filing Date) (Status - patented, pending, abandoned)

(Application Number) (Filing Date) (Status - patented, pending, abandoned)

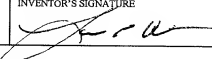
I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

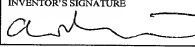
Jonathan P. Meyer, Reg. No. 30,477; Doug Fekete, Reg. No. 29,065;
K. Cyrus Khosravi, Reg. No. 40,375; Steven G Parmelee, Reg. No. 28,790; J. Ray
Wood, Reg. No. 36,062; Daniel K. Nichols, Reg. No. 29,420; Val Jean Hillman, Reg. No.
34,841; Susan L. Lukasik, Reg. No. 35,261; Terri S. Hughes, Reg. No. 41,856; Steven R.
Santema, Reg. No. 40,156.

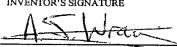
Address all telephone calls to Mr. Jonathan P. Meyer at telephone no. (847) 576 0173.

Address all correspondence to Jonathan P. Meyer, Motorola, Inc., Intellectual Property
Section - Law Department, 1303 East Algonquin Road, Schaumburg, IL 60196.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF FIRST INVENTOR: FIRST MIDDLE LAST		INVENTOR'S SIGNATURE	DATE:
<u>Lou Dellaverson</u>			<u>6/22/00</u>
RESIDENCE: <u>11 Ferndale Road, Barrington, Illinois 60010 United States Of</u> <u>America</u>		CITIZENSHIP: <u>United States</u>	
POST OFFICE ADDRESS: <u>IL</u>			
Same as above			

FULL NAME OF SECOND INVENTOR: FIRST MIDDLE LAST		INVENTOR'S SIGNATURE	DATE:
<u>Andrew Watson</u>			<u>24/07/00</u>
RESIDENCE: <u>51 Bryher Island, Port Solent, Cosham, Portsmouth, Hampshire PO6</u> <u>4UF</u>		CITIZENSHIP: <u>British</u>	
POST OFFICE ADDRESS: <u>GB3</u>			
Same as above			

FULL NAME OF THIRD INVENTOR: FIRST MIDDLE LAST		INVENTOR'S SIGNATURE	DATE:
<u>Antony Wray</u>			<u>13/7/00</u>
RESIDENCE: <u>94 Cowslip Bank, Lychpit,, Basingstoke, Hampshire RG24 8RR</u>		CITIZENSHIP: <u>British</u>	
POST OFFICE ADDRESS: <u>GB3</u>			
Same as above			

**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

Attorney Docket CE0137UM

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled PROVIDING A SERVICE IN A COMMUNICATION SYSTEM, the specification of which is attached hereto unless the following box is checked:

☐ Application was filed on 08/09/99 in the U.S.
as Application No. 09/530,343
and was amended on _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)		Priority Claimed
<u>9818585.3</u>	<u>GB</u>	<u>27 August 1998</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)
<u>PCT/EP99/105765</u>		<u>PCT</u> <u>09 August</u>
<u>1999</u>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application Number) _____ (Filing Date) _____

(Application Number) _____ (Filing Date) _____

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(Application Number) _____ (Filing Date) _____ (Status - patented, pending, abandoned) _____

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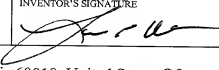
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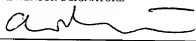
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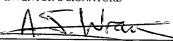
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FULL NAME OF FIRST INVENTOR: FIRST MIDDLE LAST	INVENTOR'S SIGNATURE	DATE:
Lou Dellaverson		4/22/00
RESIDENCE: 11 Ferndale Road, Barrington, Illinois 60010 United States Of America	CITIZENSHIP: United States	
POST OFFICE ADDRESS: Same as above		

FULL NAME OF SECOND INVENTOR: FIRST MIDDLE LAST	INVENTOR'S SIGNATURE	DATE:
Andrew Watson		29/07/00
RESIDENCE: 51 Bryher Island, Port Solent, Cosham, Portsmouth, Hampshire PO6 4UF	CITIZENSHIP: British	
POST OFFICE ADDRESS: Same as above		

FULL NAME OF THIRD INVENTOR: FIRST MIDDLE LAST	INVENTOR'S SIGNATURE	DATE:
Antony Wray		13/7/00
RESIDENCE: 94 Cowslip Bank, Lychpit, Basingstoke, Hampshire RG24 8RR	CITIZENSHIP: British	
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